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	Application No.	Applicant(s)	
Notice of Allowability	10/004,726	TANAKA ET AL.	
	xaminer	Art Unit	
	likolas J. Uhlir	1773	
The MAILING DATE of this communication appear claims being allowable, PROSECUTION ON THE MERITS IS (Content of the previously mailed), a Notice of Allowance (PTOL-85) or DTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT Office or upon petition by the applicant. See 37 CFR 1.313 a	R REMAINS) CLOSED in the commetter of the commeter of the comm	n this application. If not include unication will be mailed in due	ed course. THIS
\boxtimes This communication is responsive to <u>1/12/2004</u> .			
☑ The allowed claim(s) is/are <u>7-17</u> .			
igotimes The drawings filed on <u>05 December 2001</u> are accepted by th	e Examiner.		
 Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have b 		or (f).	
2. Certified copies of the priority documents have b			
Copies of the certified copies of the priority docu	ments have been receive	d in this national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME ITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to file NT of this application.	e a reply complying with the rec	quirements
☐ A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives			OTICE OF
CORRECTED DRAWINGS (as "replacement sheets") must l	oe submitted.		
(a) including changes required by the Notice of Draftsperson	n's Patent Drawing Revie	w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date	Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on t header according to 37 C	he drawings in the front (not the FR 1.121(d).	back) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO	of BIOLOGICAL MAT	ERIAL must be submitted.	Note the
tachment(s) □ Notice of References Cited (PTO-892)	5. Notice of I	nformal Patent Application (PT	O-152)
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. X Interview S	Summary (PTO-413),	
	·	/Mail Date <u>03102004</u> . s Amendment/Comment	
☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08)			
 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit 	8. 🛛 Examiner's	Statement of Reasons for Allo	owance

Application/Control Number: 10/004,726

Art Unit: 1773

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joe Fox on 3/5/2004.

The application has been amended as follows:

Claim 11: line 13: "Tc1>Tc2>Tc3<Tc4 and Tc1>Tc4," has been deleted and -Tc1>Tc2, Tc1>Tc3, Tc1>Tc4, Tc3<Tc2, and Tc3<Tc4, -- has been inserted between
"satisfy relationships of" (line 12) and "and the intermediate layer is made of" (line 13).

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: The closest prior art to that of the instant claims are US6117544 to Hirokane and US 5662988 to Nakayama. While Hirokane discloses a recording medium having 4 magnetic layers exhibiting the required magnetic orientations in the required order, Hirokane teaches that the reproduction assist layer (Hirokane's second layer, applicant's claimed reproduction layer) should have a curie temperature higher then that of the reproduction layer (Hirokane's first layer, applicant's claimed mask layer). Thus, Hirokane does not teach the required Curie temperature relationship in combination with the required structure. There is no teaching or motivation in the prior art that would lead one of ordinary skill to alter the structure of Hirokane such that the curie temperature of

Application/Control Number: 10/004,726

Art Unit: 1773

Hirokane's 1st magnetic layer (Hirokane's reproduction layer, applicant's claimed mask layer) exhibits a higher curie temperature then the recording, reproducing, and intermediate layers.

3. Further, Nakayama discloses a magneto-optical recording medium having four magnetic layers wherein the 1st through 4th magnetic layers meet the applicant's magnetization direction requirements. Nakayama fails to teach or render obvious a structure wherein the 2nd layer is a read-out layer. Given the knowledge in the prior art regarding the functional differences between a reproducing layer (applicants claim 1 layer 2) and a memory layer (Nakayama's layer 2) (see page 6, line 6-page, line 24 of the instant specification for a discussion of the functional characteristics of reproducing and recording layers in magneto-optical media), one of ordinary skill in the art would not recognize these layers to be functionally equivalent, and would not have been motivated to utilize the writing layer of Nakayama (Nakayama's layer 2) as a read out layer (applicant's claim 1, layer 2).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikolas J. Uhlir whose telephone number is 571-272-1517. The examiner can normally be reached on Mon-Fri 7:30 am - 5 pm.

Page 4

Application/Control Number: 10/004,726

Art Unit: 1773

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul J. Thibodeau can be reached on 571-272-1516. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Faul Thibodeau
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